Samsung NX20 Specifications

* Specifications are subject to change without prior notice

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Specifications		NX 20
Image sensor	Type	CMOS
	Sensor size	23.5x15.7mm
	Effective Pixel	Approx. 20.3 Mega-pixels
	Total Pixel	Approx. 21.6 Mega-pixels
	Color Filter	RGB primary color filter
Lens Mount	Mount	Samsung NX Mount
	Useable lens	Samsung Lenses
Image Stabilization	Type	Lens Shift (depends on Lens)
	Mode	OIS Mode1 / Mode2 / OFF
Distortion Correct		LDC On / Off (depends on Lens)
i-Function	i-Effect	i-Scene (depends on Lens)
		Smart Filter (Vignetting, Miniature, Fish-Eye, Sketch, Defog, Halftone Dot)
	i-Zoom	i-Zoom (x1.2, 1.4, 1.7, 2.0)
Dust Reduction	Type	Supersonic drive
Display	Type	AMOLED
	Size	3.0"
	Resolution	VGA (640X480) 614k dots (PenTile) OCR
	Field of View	Approx. 100%
	Angle	Swivel / Horizontal : 180degree, Vertical : 270degree
	Display	Grid (4types), Histogram, Icons : On/Off, Distance Scale : ft / m / Off, Electronic Level
Viewfinder	Type	EVF w/ Eye Contact Sensor
	Resolution	SVGA (800 x 600)
	Field of view	Approx.100%
	Magnification	Approx. 1.04X (APS-C、 50mm、 -1m-1) Approx. 0.68X (Equivalent to a 50mm lens on a 35mm camera)
	Eyepoint	Approx. 18.0mm
	Diopter Adjustment	Approx. -4.0 ~ +4.0m^{-1}
Focusing	Type	Contrast AF
	Focusing point	Selection: 1point (Free selection) Multi : Normal 15points, Closeup 35points Face Detection : Max. 10 faces

	Modes	Single AF, Continuous AF, MF
	AF-assist Lamp	Yes
Shutter	Type	Electronically controlled vertical-run focal plane shutter
	Speed	Auto : 1/8000sec. ~ 30sec.　(w/ E-Shutter)
		Manual : 1/8000sec. ~ 30sec. (w/ E-Shutter, 1/3EV step) Bulb (Limit time: 4min.)
Exposure	Metering System	TTL 221(17x13) Block segment
		Metering : Multi, Center-weighted, Spot
		Metering range : EV 0-18 (ISO 100 · 30mm, F2)
	Compensation	±3 EV (1/3EV step)
	AE Lock	AEL button
	ISO Equivalent	Auto, 100, 200, 400, 800, 1600, 3200, 6400, 12800 (1 or 1/3EV step) * AUTO ISO upper level is selectable. (Up to ISO3200)
Drive Mode	Modes	Single, Continuous, Burst (5M size only), Self-timer, Bracket (AE/WB/PW)
	Continuous	JPEG : High(8fps) up to 11 shots, Low(3fps) up to 15 shots selectable Burst :　10, 15, 30fps selectable, 30 shots by 1 release RAW :　　High(8fps), Low(3fps) selectable up to 8 shots
	Bracket	Auto Exposure Bracket (±3EV), WB, PW
	Self-timer	2 - 30sec. (1sec. step)
	Remote controller	SR2NX02 (via Micro USB port)
Flash	Type	TTL Auto Pop-up flash
	Modes	Smart Flash, Auto, Auto+Red-eye reduction, Fill-in, Fill-in+Red-eye reduction, 1st Curtain, 2nd Curtain, OFF
	Guide Number	11(at ISO 100)
	Angle of View Coverage	28mm wide-angle (Equivalent to 35mm)
	Sync. Speed	Less than 1/180sec.
	Flash Compensation	-2 - +2EV (0.5EV step)
	External Flash	Samsung External Flash available (SEF42A, SEF220A : Optional)
	Synchro (Flash attachment)	Hot Shoe
White Balance		Auto, Daylight, Cloudy, Fluorescent (W, N, D), Tungsten, Flash, Custom, K(Manual)
	Micro adjustment	each 7 steps in Amber / Blue / Green / Magenta axis
Dynamic Range Expansion		OFF / Smart Range
Picture Wizard	Modes	Standard, Vivid, Portrait, Landscape, Forest, Retro, Cool, Calm, Classic, Custom (1~3)
	Parameter	Contrast, Sharpness, Saturation, Color

Shooting	Modes	SmartAuto(2.0), Program, Aperture Priority, Shutter Priority, Manual, Custom, Lens Priority, Scene, Movie, Wi-Fi
	Scene Mode	Live Panorama (2d, 3D), Beauty Shot, Night, Landscape, Portrait, Children, Sports, Close Up, Text, Sunset, Dawn, Backlight, Fireworks, Beach&Snow, Sound Picture, 3D Photo
	Sound Picture	JPEG Only
		Sound Recording Time (Before and after shooting each 5sec or 10sec)
	Smart Filter	Vignetting, Miniature, Fish-Eye, Sketch, De-fog, Halftone Dots, Soft Focus, Old Film1, Old Film2, Negative, Selective Color (R,G,B,Y)
	Magic Frame	Old Album, Old Film, Wave, Full Moon, Old Record, Magazine, Sunny Day, Classic TV, Wall Art, Holiday, Billboard 1, Billboard 2, Newspaper
	Image Size	JPEG (3:2) : 20.0M (5472x3648), 10.1M (3888x2592), 5.9M (2976x1984), 2.0M (1728x1152), 5.0M (2736x1824): Burst mode only
		JPEG (16:9) : 16.9M (5472x3080), 7.8M (3712x2088), 4.9M (2944x1656), 2.1M (1920x1080)
		JPEG (1:1) : 13.3M (3648x3648), 7.0M (2640x2640), 4.0M (2000x2000), 1.1M (1024x1024) RAW: 20.0M (5472x3648)
	Quality	Super fine, Fine, Normal
	RAW Format	SRW (Compressed)
	Color Space	sRGB, Adobe RGB
Movie	Format	MP4 (H.264)
	Compression	Movie : H.264 , Sound : AAC
	Modes	Program, Aperture Priority, Shutter Priority, Manual
	Movie Clip	With Audio or without Audio (user selectable, recording time : 25 minutes)
	Smart Filter	Vignetting, Miniature, Fish-Eye, Sketch, De-fog, Halftone Dots, Soft Focus, Old Film1, Old Film2, Negative
	Image size	1920x1080, 1920x810, 1280x720, 640x480, 320x240 for Sharing (Default : 1920x1080)
	Frame rate	30fps, 24fps(1920x810 Only)
	Multi-Motion Recording	x0.25 (640, 320 only), x0.5 (1280, 640, 320 only), x5, x10, x20
	Quality	High Quality, Normal
	Sound	Stereo Sound
	Movie Editing	Still Image Capture, Time Trimming
Image Play	Type	Single image, Thumbnails (3/15/40 images), Slide show, Movie

	Editing	Smart Filter, Red-eye fix, Backlight., Resize, Rotate, Face Retouch, Brightness, Contrast, Vignetting
	Smart Filter	Miniature, Soft Focus, Old Film1, Old Film2, Halftone Dots, Sketch, Fish-Eye, De-fog, Negative
		<Size> JPEG (3:2) : 5.9M (2976x1984), 5.0M (2736x1824), 2.0M (1728x1152) JPEG (16:9) : 6.2M (3328x1872), 4.9M (2944x1656), 2.1M (1920x1080) JPEG (1:1) : 6.0M (2448x2448), 4.0M (2000x2000), 1.1M (1024x1024)
Storage	Media	SD, SDHC, SDXC (guarantee up to 128GB)
	File format	RAW (SRW), JPEG (EXIF 2.21), DCF, DPOF 1.1, PictBridge 1.0

	Capacity (2GB)	20.0M RAW : Super Fine 37, Fine 47, Normal 51
		20.0M (3:2) : Super Fine 186, Fine 365, Normal 537
		10.1M (3:2) : Super Fine 397, Fine 727, Normal 1047
		5.9M (3:2) : Super Fine 628, Fine 1172, Normal 1648
		2.0M (3:2) : Super Fine 1633, Fine 2752, Normal 3566
		Burst (5.0M) : Super Fine 733, Fine 1354, Normal 1885
		16.9M (16:9) : Super Fine 230, Fine 450, Normal 658
		7.8M (16:9) : Super Fine 487, Fine 922, Normal 1314
		4.9M (16:9) : Super Fine 749, Fine 1381, Normal 1920
		2.1M (16:9) : Super Fine 1579, Fine 2675, Normal 3481
		13.3M (1:1) : Super Fine 290, Fine 562, Normal 817
		7.0M (1:1) : Super Fine 538, Fine 1014, Normal 1437
		4.0M (1:1) : Super Fine 897, Fine 1627, Normal 2232
		1.1M (1:1) : Super Fine 2654, Fine 4072, Normal 4954
		Movie : 1920x1080 30p : High Quality 17m 35s, Normal 21m 56s
		        1920x810 24p : High Quality 19m 0s, Normal 23m 43s
		        1280x720 60p : High Quality 20m 16s, Normal 25m 17s
		        1280x720 30p : High Quality 29m 10s, Normal 36m 20s
		        640x480 30p : High Quality 73m 26s, Normal 91m 0s
		        320x240 30p : High Quality 236m 16s, Normal 287m 12s
		※ These figures are measure under the Samsung standard.

Languages		17 Languages (Korean, English, Danish, German, Dutch, Swedish, Spanish, Italian, Czech, French, Portuguese, Polish, Finnish, Russian, Norsk, Simplified/Traditional Chinese)
Direct Printing		PictBridge
GPS	Type (Specification)	Geo-tagging w/ Optional GPS Module (WGS84)

	Function	-Location Name(OSD) (English and Korean only) -Google Map Link (with intelli-Studio)
Wi-Fi		IEEE 802.11n support . Cloud . Email . Auto Backup . Remote Viewfinder . Mobile Link . Wi-Fi Direct . TV Link . Social Sharing
Interface	Digital Output Connector	USB 2.0 (HI-SPEED) (micro USB Jack)
	Video output	NTSC, PAL (user selectable) HDMI 1.4a : (1080i, 720P, 576P / 480P)
	External Release	Yes
	External Mic	Yes
Power Source	Type	Rechargeable battery : BP1310 (1300mAh) Charger: BC1310
	Battery life	360 shot (CIPA Standard)
Physical Specification	Dimensions (WxHxD)	122 x 89.6 x 39.5mm
	Weight	341g (without batteries and Memory card)
	Operating Temperature	0 ~ 40 °C
	Operating Humidity	5 ~ 85%
Software	Application	intelli-studio 3.0, Samsung RAW Converter 4, PC Auto Backup
		Adobe Reader